

Title (en)
SOLID PHARMACEUTICAL DOSAGE FORM COMPRISING RITONAVIR

Title (de)
FESTE PHARMAZEUTISCHE DOSIERFORM ENTHALTENDE RITONAVIR

Title (fr)
FORME POSOLOGIQUE PHARMACEUTIQUE SOLIDE COMPRENANT RITONAVIR

Publication
EP 1663183 A2 20060607 (EN)

Application
EP 04816820 A 20040823

Priority
• US 2004027401 W 20040823
• US 65017803 A 20030828

Abstract (en)
[origin: US2005048112A1] A solid pharmaceutical dosage form providing improved oral bioavailability is disclosed for inhibitors of HIV protease. In particular, the dosage form comprises a solid dispersion of at least one HIV protease inhibitor and at least one pharmaceutically acceptable water-soluble polymer and at least one pharmaceutically acceptable surfactant, said pharmaceutically acceptable water-soluble polymer having a Tg of at least about 50° C. Preferably, the pharmaceutically acceptable surfactant has an HLB value of from about 4 to about 10.

IPC 1-7
A61K 31/00

IPC 8 full level
A61K 9/14 (2006.01); **A61K 9/20** (2006.01); **A61K 9/28** (2006.01); **A61K 31/425** (2006.01)

CPC (source: EP KR US)
A61K 9/146 (2013.01 - EP KR US); **A61K 9/2009** (2013.01 - EP KR US); **A61K 9/2013** (2013.01 - EP KR US);
A61K 9/2027 (2013.01 - EP KR US); **A61K 9/2077** (2013.01 - KR); **A61K 9/2866** (2013.01 - KR); **A61K 31/425** (2013.01 - EP KR US);
A61P 31/18 (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **A61K 9/2866** (2013.01 - EP US)

Citation (search report)
See references of WO 2005039551A2

Citation (third parties)
Third party :
• US 4769236 A 19880906 - PANOZ DONALD E [IE], et al
• WO 0074677 A2 20001214 - ABBOTT LAB [US]
• US 5073379 A 19911217 - KLIMESCH ROGER [DE], et al
• WO 0134119 A2 20010517 - ABBOTT LAB [US]
• BASF FINE CHEMICALS: "Excipients and actives for pharma", NEWSLETTER, no. 2, July 1999 (1999-07-01), pages 1 - 8, XP003014909
• BREITENBACH J.: "Melt extrusion: from process to drug delivery technology", EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, vol. 54, no. 2, 2002, pages 107 - 117, XP004377352
• SERAJUDDIN A.T.M.: "SOLID DISPERSION OF POORLY WATER-SOLUBLE DRUGS: EARLY PROMISES, SUBSEQUENT PROBLEMS, AND RECENT BREAKTHROUGHS", JOURNAL OF PHARMACEUTICAL SCIENCES, vol. 88, no. 10, October 1999 (1999-10-01), pages 1058 - 1066, XP000851882
• CORRIGAN O.I., HEALY A.M.: "Surfactants in pharmaceutical products and systems", ENCYCLOPEDIA OF PHARMACEUTICAL TECHNOLOGY, vol. 14, 2002, pages 2639 - 2653, XP003014910
• BREITENBACH J.: "Melt extrusion can bring new benefits to HIV therapy", AM. J. OF DRUG DELIVERY, vol. 4, no. 2, 2006, pages 61 - 64, XP003014911
• DIAS L. ET AL: "Physical and oral dog bioavailability evolution of ABT-538:PVP CO-Precipitates abstract PDD 7475", PHARMACEUTICAL RESEARCH, vol. 13, no. 9, September 1996 (1996-09-01), pages S351, XP003028073
• FORSTER A. ET AL: "Selection of excipients for melt extrusion with two poorly water-soluble drugs by solubility parameter calculation and thermal analysis", INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol. 226, no. 1-2, 11 September 2001 (2001-09-11), pages 147 - 161, XP027380117
• FORSTER A. ET AL: "Characterization of glass solutions of poorly water-soluble drugs produced by melt extrusion with hydrophilic amorphous polymers", JOURNAL OF PHARMACY AND PHARMACOLOGY, vol. 53, no. 3, 1 March 2001 (2001-03-01), pages 303 - 315, XP008031767
• BREITENBACH J. ET AL: "Two Concepts, One Technology: Controlled-Release Solid Dispersions Using Melt Extrusion (Meltrex®)", MODIFIED-RELEASE DRUG DELIVERY TECHNOLOGY, vol. 1, 2008, pages 179 - 185, XP003033252

Cited by
WO2013131645A1; WO2013131646A1; US2015111909A1; EP2258344A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL HR LT LV MK

DOCDB simple family (publication)
US 2005048112 A1 20050303; AT E516017 T1 20110715; AU 2004283087 A1 20050506; AU 2004283087 B2 20070920;
AU 2004283087 C1 20080424; AU 2007249115 A1 20080110; AU 2007249115 B2 20100812; AU 2010238573 A1 20101118;
AU 2010238573 B2 20121213; CA 2536638 A1 20050506; CA 2536638 C 20100406; CA 2689639 A1 20050506; CA 2689639 C 20140610;
CN 101919858 A 20101222; CN 101919858 B 20131030; CN 102764244 A 20121107; CN 102772380 A 20121114; CN 102772380 B 20150819;
CN 105106104 A 20151202; CN 1901884 A 20070124; CN 1901884 B 20120725; CR 20120661 A 20130313; CR 20120662 A 20130313;
CR 8256 A 20080111; CY 1111981 T1 20151104; CY 1113596 T1 20160622; CY 1118505 T1 20170712; CY 1119651 T1 20180404;
CY 1120138 T1 20181212; DK 1663183 T3 20110829; DK 2258344 T3 20130102; DK 2258345 T3 20170116; DK 2258346 T3 20171113;
DK 2942051 T3 20180507; EA 011924 B1 20090630; EA 020992 B1 20150331; EA 033224 B1 20190930; EA 200600473 A1 20061027;
EA 200900292 A1 20090630; EA 201301045 A1 20140530; EA 201890737 A2 20180831; EA 201890737 A3 20190131;
EC SP066397 A 20060830; EP 1663183 A2 20060607; EP 1663183 B1 20110713; EP 1663183 B9 20120613; EP 2258344 A2 20101208;

EP 2258344 A3 20110119; EP 2258344 B1 20121114; EP 2258345 A2 20101208; EP 2258345 A3 20110119; EP 2258345 B1 20160921; EP 2258346 A2 20101208; EP 2258346 A3 20110119; EP 2258346 B1 20170927; EP 2942051 A1 20151111; EP 2942051 B1 20180117; EP 3354261 A1 20180801; ES 2367173 T3 20111031; ES 2399810 T3 20130403; ES 2608720 T3 20170412; ES 2653762 T3 20180208; ES 2666390 T3 20180504; HK 1094766 A1 20070413; HK 1145969 A1 20110513; HK 1217298 A1 20170106; HK 1257502 A1 20191025; HR P20110555 T1 20110930; HU E031153 T2 20170728; HU E035985 T2 20180628; HU E038792 T2 20181128; IL 173939 A0 20060705; IL 173939 A 20170330; IL 207260 A 20171031; IL 254581 A0 20171130; JP 2007504142 A 20070301; JP 2011126898 A 20110630; JP 2011236232 A 20111124; JP 2013241460 A 20131205; JP 2016094433 A 20160526; JP 2018035163 A 20180308; JP 4815348 B2 20111116; JP 5395125 B2 20140122; JP 5498411 B2 20140521; JP 5903413 B2 20160413; KR 101132602 B1 20120406; KR 101281994 B1 20130704; KR 101457967 B1 20141107; KR 101563222 B1 20151026; KR 20060121837 A 20061129; KR 20110122771 A 20111110; KR 20120054666 A 20120530; KR 20140046078 A 20140417; KR 20150044031 A 20150423; ME 00130 B 20101010; ME P17608 A 20100610; MX 358033 B 20180802; MX PA06002346 A 20060519; NO 20061342 L 20060529; NO 20100367 L 20060529; NO 20131743 L 20060529; NO 330282 B1 20110321; NO 334418 B1 20140303; NO 335326 B1 20141110; NZ 545499 A 20091127; NZ 579622 A 20110128; PL 1663183 T3 20111031; PL 2258344 T3 20130430; PL 2258345 T3 20170331; PL 2258346 T3 20180131; PL 2942051 T3 20180731; PT 1663183 E 20110825; PT 2258344 E 20130218; PT 2258345 T 20170120; PT 2258346 T 20171024; PT 2942051 T 20180423; RS 20060140 A 20080929; RS 20181262 A1 20190228; RS 57663 B1 20181130; RS 59969 B1 20200331; SG 10201507902U A 20151029; SG 145690 A1 20080929; SG 179401 A1 20120427; SI 1663183 T1 20110930; SI 2258344 T1 20130329; SI 2258345 T1 20170131; SI 2258346 T1 20171229; SI 2942051 T1 20180629; TW 200522979 A 20050716; TW I342221 B 20110521; UA 85564 C2 20090210; WO 2005039551 A2 20050506; WO 2005039551 A3 20060803; ZA 200601718 B 20091125; ZA 200801361 B 20111130; ZA 200801362 B 20090325

DOCDB simple family (application)

US 65017803 A 20030828; AT 04816820 T 20040823; AU 2004283087 A 20040823; AU 2007249115 A 20071219; AU 2010238573 A 20101101; CA 2536638 A 20040823; CA 2689639 A 20040823; CN 200480024748 A 20040823; CN 201010222734 A 20040823; CN 201210259721 A 20040823; CN 201210259739 A 20040823; CN 201510531654 A 20040823; CR 20120661 A 20121221; CR 20120662 A 20121221; CR 8256 A 20060223; CY 111100923 T 20110922; CY 131100093 T 20130201; CY 161101315 T 20161219; CY 171101155 T 20171103; CY 181100407 T 20180417; DK 04816820 T 20040823; DK 10181250 T 20040823; DK 10181264 T 20040823; DK 10181268 T 20040823; DK 15169378 T 20040823; EA 200600473 A 20040823; EA 200900292 A 20040823; EA 201301045 A 20040823; EA 201890737 A 20040823; EC SP066397 A 20060224; EP 04816820 A 20040823; EP 10181250 A 20040823; EP 10181264 A 20040823; EP 10181268 A 20040823; EP 15169378 A 20040823; EP 17210362 A 20040823; ES 04816820 T 20040823; ES 10181250 T 20040823; ES 10181264 T 20040823; ES 10181268 T 20040823; ES 15169378 T 20040823; HK 06113444 A 20061206; HK 10112283 A 20101230; HK 16105307 A 20160510; HK 18116294 A 20181219; HR P20110555 T 20110725; HU E10181264 A 20040823; HU E10181268 A 20040823; HU E15169378 A 20040823; IL 17393906 A 20060226; IL 20726010 A 20100727; IL 25458117 A 20170918; JP 2006524782 A 20040823; JP 2011032972 A 20110218; JP 2011149721 A 20110706; JP 2013168001 A 20130813; JP 2015237449 A 20151204; JP 2017173733 A 20170911; KR 20067004057 A 20040823; KR 20117025014 A 20040823; KR 20127011945 A 20040823; KR 20147007592 A 20040823; KR 20157009392 A 20040823; ME P17608 A 20040823; ME P2008176 A 20040823; MX 2010013145 A 20040823; MX PA06002346 A 20040823; NO 20061342 A 20060324; NO 20100367 A 20100315; NO 20131743 A 20131227; NZ 54549904 A 20040823; NZ 57962204 A 20040823; PL 04816820 T 20040823; PL 10181250 T 20040823; PL 10181264 T 20040823; PL 10181268 T 20040823; PL 15169378 T 20040823; PT 04816820 T 20040823; PT 10181250 T 20040823; PT 10181264 T 20040823; PT 10181268 T 20040823; PT 15169378 T 20040823; RS P20181262 A 20040823; SG 10201507902U A 20040823; SG 2008055634 A 20040823; SG 2012008959 A 20040823; SI 200431719 T 20040823; SI 200431996 T 20040823; SI 200432367 A 20040823; SI 200432412 T 20040823; SI 200432438 T 20040823; TW 93125927 A 20040827; UA A200603276 A 20040823; US 2004027401 W 20040823; YU P20060140 A 20040823; ZA 200601718 A 20060227; ZA 20080208; ZA 200801362 A 20040823